

OIPE

RAW SEQUENCE LISTING

DATE: 09/15/2004

PATENT APPLICATION: US/09/763,393

TIME: 16:54:32

Input Set : A:\61541.ST25.txt

Output Set: N:\CRF4\09152004\1763393.raw

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3 <110> APPLICANT: The Government of the United States of America as
        represented by the Secretary of the Department of Health and
        Human Services
        Pastan, Ira
        Brinkmann, Ulrich
        Vasmatzis, George
        Lee, Byungkook
11 <120> TITLE OF INVENTION: PAGE-4, an X-Linked GAGE-Like Gene Expressed in Normal and
        Neoplastic Prostate, Testis and Uterus, and Uses Therefor
14 <130> FILE REFERENCE: 4239-61541-01
16 <140> CURRENT APPLICATION NUMBER: US 09/763,393
                                                        17 <141> CURRENT FILING DATE: 2001-07-30
19 <150> PRIOR APPLICATION NUMBER: PCT/US99/20046
20 <151> PRIOR FILING DATE: 1999-08-31
22 <150> PRIOR APPLICATION NUMBER: US 60/098,993
23 <151> PRIOR FILING DATE: 1998-09-01
25 <160> NUMBER OF SEQ ID NOS: 16
                                                            27 <170> SOFTWARE: PatentIn version 3.3
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 102
31 <212> TYPE: PRT
32 <213> ORGANISM: Homo sapiens
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40 Glu Ala Pro Asp Val Val Ala Phe Val Ala Pro Gly Glu Ser Gln Gln
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44 Glu Glu Pro Pro Thr Asp Asn Gln Asp Ile Glu Pro Gly Gln Glu Arg
                              40
48 Glu Gly Thr Pro Pro Ile Glu Glu Arg Lys Val Glu Gly Asp Cys Gln
                          55
52 Glu Met Asp Leu Glu Lys Thr Arg Ser Glu Arg Gly Asp Gly Ser Asp
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56 Val Lys Glu Lys Thr Pro Pro Asn Pro Lys His Ala Lys Thr Lys Glu
57
                  85
60 Ala Gly Asp Gly Gln Pro
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65 <211> LENGTH: 117
66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 2
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71 Met Ser Trp Arg Gly Arg Ser Thr Tyr Arg Pro Arg Pro Arg Tyr

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72 1
75 Val Glu Pro Pro Glu Met Ile Gly Pro Met Arg Pro Glu Gln Phe Ser
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             20
79 Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala Thr Gln
83 Arq Gln Asp Pro Ala Ala Ala Gln Glu Gly Glu Asp Glu Gly Ala Ser
                  55
87 Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser Gln Glu Gln Gly His
                     70
91 Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln Glu Met
                 85
                                     90
95 Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Glu Met Arg
                                 105
      100
99 Ser His Tyr Val Ala
100 115
103 <210> SEQ ID NO: 3
104 <211> LENGTH: 116
105 <212> TYPE: PRT
106 <213> ORGANISM: Homo sapiens
108 <400> SEQUENCE: 3
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118 Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala Thr Gln
                               40
122 Arg Gln Asp Pro Ala Ala Ala Gln Glu Gly Glu Asp Glu Gly Ala Ser
                           55
126 Ala Gly Gln Gly Pro Lys Pro Glu Ala His Ser Gln Glu Gln Gly His
127 65
130 Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln Glu Met
134 Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Gly Glu Lys
138 Gln Ser Gln Cys
139 115
142 <210> SEQ ID NO: 4
143 <211> LENGTH: 118
144 <212> TYPE: PRT
145 <213 > ORGANISM: Homo sapiens
147 <400> SEQUENCE: 4
149 Met Asn Leu Ser Arg Gly Lys Ser Thr Tyr Tyr Arg Pro Arg Pro Arg
150 1 5
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153 Arg Tyr Val Gln Pro Pro Glu Val Ile Gly Pro Met Arg Pro Glu Gln
157 Phe Ser Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala
                               40
161 Thr Gln Arg Gln Asp Pro Ala Ala Gln Glu Gly Glu Asp Glu Gly
162
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165 Ala Ser Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser Gln Glu Gln 166 65 169 Gly His Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln 90 173 Glu Met Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Gly 100 105 177 Glu Lys Gln Ser Gln Cys 178 115 181 <210> SEQ ID NO: 5 182 <211> LENGTH: 117 183 <212> TYPE: PRT 184 <213> ORGANISM: Homo sapiens 186 <400> SEQUENCE: 5 188 Met Ser Trp Arg Gly Arg Ser Thr Tyr Tyr Arg Pro Arg Pro Arg Arg 189 1 192 Tyr Val Gln Pro Pro Glu Met Ile Gly Pro Met Arg Pro Glu Gln Phe 196 Ser Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala Thr 197 35 40 200 Gln Arg Gln Asp Pro Ala Ala Gln Glu Gly Glu Asp Glu Gly Ala 204 Ser Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser Gln Glu Gln Gly 208 His Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln Glu 212 Met Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Gly Glu 100 213 105 216 Lys Gln Ser Gln Cys 217 115 220 <210> SEQ ID NO: 6 221 <211> LENGTH: 117 222 <212> TYPE: PRT 223 <213> ORGANISM: Homo sapiens 225 <400> SEQUENCE: 6 227 Met Ser Trp Arg Gly Arg Ser Thr Tyr Tyr Arg Pro Arg Pro Arg Arg 228 1 10 231 Tyr Val Gln Pro Pro Glu Val Ile Gly Pro Met Arg Pro Glu Gln Phe 235 Ser Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala Thr 40 239 Gln Arg Gln Asp Pro Ala Ala Gln Glu Gly Glu Asp Glu Gly Ala 243 Ser Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser Gln Glu Gln Gly 70 247 His Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln Glu 251 Met Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Gly Glu 255 Lys Gln Ser Gln Cys

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261 <212> TYPE: PRT
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                                    25
274 Ser Asp Glu Val Glu Pro Ala Thr Pro Glu Glu Gly Glu Pro Ala Thr .
            35
278 Gln Arg Gln Asp Pro Ala Ala Gln Glu Gly Glu Asp Glu Gly Ala
282 Ser Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser Gln Glu Gln Gly
286 His Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp Gly Gln Glu
290 Val Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu Glu Gly Glu
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294 Lys Gln Ser Gln Cys
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298 <210> SEQ ID NO: 8
299 <211> LENGTH: 124
300 <212> TYPE: PRT
301 <213> ORGANISM: Homo sapiens
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                                    25
313 Thr Glu Glu Gln Glu Ala Val Ser Ser Ser Pro Leu Val Pro Gly
317 Thr Leu Gly Glu Val Pro Ala Ala Gly Ser Pro Gly Pro Leu Lys Ser
321 Pro Gln Gly Ala Ser Ala Ile Pro Thr Ala Ile Asp Phe Thr Leu Trp
                        70
325 Arg Gln Ser Ile Lys Gly Ser Ser Asn Gln Glu Glu Glu Gly Pro Ser
                                        90
329 Thr Ser Pro Asp Pro Glu Ser Val Phe Arg Ala Ala Leu Ser Lys Lys
               100
                                    105
333 Val Ala Asp Leu Ile His Phe Leu Leu Lys Tyr
334
           115
                                120
337 <210> SEQ ID NO: 9
338 <211> LENGTH: 127
339 <212> TYPE: PRT
340 <213> ORGANISM: Homo sapiens
342 <400> SEQUENCE: 9
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348 Gln Ala Gln Gly Glu Ala Pro Gly Leu Met Asp Val Gln Ile Pro Thr
                20
                                    25
352 Ala Glu Glu Gln Lys Ala Ala Ser Ser Ser Ser Thr Leu Ile Met Gly
356 Thr Leu Glu Glu Val Thr Asp Ser Gly Ser Pro Ser Pro Pro Gln Ser
360 Pro Glu Gly Ala Ser Ser Leu Thr Val Thr Asp Ser Thr Leu Trp
                                             75
364 Ser Gln Ser Asp Glu Gly Ser Ser Ser Asn Glu Glu Glu Gly Pro Ser
                    85
                                         90
368 Thr Ser Pro Asp Pro Ala His Leu Glu Ser Leu Phe Arg Glu Ala Leu
                                    105
372 Asp Glu Lys Val Ala Glu Leu Val Arg Phe Leu Leu Arg Lys Tyr
            115
                                120
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377 <211> LENGTH: 87
378 <212> TYPE: PRT
379 <213> ORGANISM: Artificial Sequence
381 <220> FEATURE:
382 <223> OTHER INFORMATION: PAGE1
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390 Glu Ala Pro Asp Val Val Ala Phe Val Ala Pro Gly Glu Ser Gln Glu
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                                    25
394 Glu Glu Pro Pro Thr Asp Asn Gln Gly Pro Asp Met Glu Ala Phe Gln
            3.5
                                40
398 Gln Glu Leu Asp Leu Glu Lys Thr Arg Ser Glu Arg Gly Asp Gly Ser
                            55
402 Asp Val Lys Glu Lys Thr Pro Pro Asn Pro Lys His Ala Lys Thr Lys
                        70
                                            75
406 Glu Ala Gly Asp Gly Gln Pro
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411 <211> LENGTH: 109
412 <212> TYPE: PRT
413 <213> ORGANISM: Artificial Sequence
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416 <223 > OTHER INFORMATION: PAGE2
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                20
428 Thr Glu Glu Lys Arg Gln Gln Glu Glu Pro Pro Thr Asp Asn Gln Asp
432 Ile Glu Pro Gly Gln Glu Arg Glu Gly Thr Pro Pro Ile Glu Glu Arg
433
```

VERIFICATION SUMMARY

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